INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036



Telephone: (044) 2257 4249

E-mail: rkraman@iitm.ac.in



Prof. Amlan K Sengupta Project Coordinator Ref: CIE/2019/AMLA/LVDTS

Dated: 13.11.2019

Limited Tender No: CIE/2019/AMLA/LVDTS

Due Date: 22.11.2019, 3:30pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 22.11.2019, 4:00pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "Linear Variable Displacement Transducers (LVDTs)" conforming to the specifications given in (Annexure-I).

Instructions to the Bidder

- I. **Preparation of Bids:** The Limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- II. Delivery of the tender: The tender shall be sent to the below-mentioned addresses either by post or by courier so as to reach the following address before the due date and time specified in our Schedule:

Prof. Amlan K Sengupta, Department of Civil Engineering, IIT Madras Chennai - 600 036.

- III. **Opening of the tender:** The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders will be invited for opening of Technical bids. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- IV. **Price:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Civil Engineering.**

The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP (stating the Cost, Insurance, Freight separately) and indicating the mode of shipment.

V. **Agency Commission**: - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to

be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.

- VI. **Terms of Delivery**: The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. <u>Technical Bid Opening:</u> The technical bid will be opened on **22.11.2019**, **4:00pm** at the Department of Civil Engineering, IIT Madras and the financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.
- VIII. IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,

Prof. Amlan K Sengupta, Department of Civil Engineering, IIT Madras Chennai - 600 036.

SCHEDULE

Important Conditions of the tender

- 1. The due date for the submission of the tender is **22.11.2019**, **3:30pm**.
 - The offers / bids should be submitted in two bids systems (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Limited Tender for supply of "Linear Variable Displacement Transducers (LVDTs)" should be written on the left side of the Outer bigger cover and sealed.
- 2. If an Indian agent is involved, the following documents must be enclosed: Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
- 3. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
- 4. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid
- 5. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
- 6. Validity: Validity of Quotation not less than 60 days from the due date of tender.
- 7. **Delivery Schedule**: The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied. If there is delay, the penalty will be @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IITM, the PO would be cancelled, and liquidated damages will be enforced.
- 8. **Risk Purchase Clause**: In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.

9. Payment: -

- i. No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
- ii. **Advance Payment:** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.
- 10. **On-site Installation**: The equipment or machinery has to be installed or commissioned by the successful bidder within number of days (as prescribed by PI's) from the date of receipt of the item at site of IIT Madras.
- 11. **Warranty/Guarantee**: The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately. (For more details please refer our Technical Specifications).
- 12. **Late offer**: The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
- 13. **Acceptance and Rejection**: I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
- 14. Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.

15. Disputes and Jurisdiction: -

- a. **Settlement of Disputes:** Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate one arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceedings shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.
- b. **The Applicable Law:** This Purchase Order shall be construed, interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- c. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.

16. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE



DEPARTMENT OF CIVIL ENGINEERING Indian Institute of Technology Madras I.I.T.P.O., MADRAS-600 036

Form for Inviting Quotations

Ref.No.CIE//2019/AMLA/LVDTS

Date: 11-11-2019

DUE DATE: 22-11-2019

To

Dear Sirs,

1. Quotations are invited in duplicate for the various items shown below / overleaf / Enclosed list.

2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes should be enclosed in a single envelope only so as to reach on or before the due date stipulated above.

3. The Quotations should be valid for ninety days from the due date and the period of delivery required

should also be clearly indicated.

4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.

5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of

charges, and collected back at the supplier's expenses.

6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery

charges should be indicated separately.

7. Firms Outside Madras: Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, farwarding and

freight charges must be indicated.

8. The rates of GST and other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for GST/General Taxes will be admitted at any stage and on any ground whatsoever. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of import supply the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORXS and CIP basis indicating the mode of shipment.

9. Goods should be supplied carriage paid and insurred.

10. Goods shall not be supplied without an official supply order.

11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Yours faithfully,

All Sengupto [PROF. AMALAN K SENGUPTA]

Note: (i) Quotation should be sent by SPEED POST only or to be delivered directly to the concerned.

(ii) Firms are requested to submit the specifications of their product along with supporting technical Documentation / brouchure instead of reproducing the specifications sent by us.

TECHNICAL SPECIFICATIONS FOR LVDTS

<u>NOTE</u>: For each specification, please enter "YES" or "NO" in the second column of this table. **If a cell in the second column is left blank, then it will be assumed that the quotation does not comply with the respective specification/requirement.** Provide catalogues, data sheets and/or other documentation to support the compliance of your equipment to the given specifications.

1 Gei	neral	Yes / No	Remarks
	Linear Variable Displacement Transducers (LVDTs) of different travel lengths to measure the displacements under testing of concrete specimens. The LVDTs should satisfy the following performance criteria.	7.110	
2 S	pecifications		
2.1	Travel lengths: 20 mm; Unit: 02		
2.2	Travel lengths: 50 mm; Unit: 02		
2.3	Travel lengths: 100 mm; Unit: 02		
2.4	Displacement transducer type: Plunger		
2.5	Inductive: Full bridge measurement system		
2.6	Nominal displacements: ±10 mm, ±25 mm, ±50 mm		
2.7	Linearity division: < 0.2%		
2.8	Sensitivity: ±1%		
2.9	Room space to mount the LVDT: 250 mm		
2.10	Compatible with the HBM data acquisition system (QuantumX MX1615B) using Catman software		
2.11	Supporting cable length: 3m		
	echnical Support: Installation, Training, Warranty and Maintenance		
3.1	The manufacturer/supplier must provide training to selected personnel at IIT Madras, on the operation and maintenance of the unit		
3.2	The manufacturer/supplier must have a qualified technical support team to immediately attend the repair of any unit, if required.		
3.3	Warranty period of minimum 1 year		

TECHNICAL SPECIFICATIONS FOR LOAD CELL

<u>NOTE</u>: For each specification, please enter "YES" or "NO" in the second column of this table. **If a cell in the second column is left blank, then it will be assumed that the quotation does not comply with the respective specification/requirement.** Provide catalogues, data sheets and/or other documentation to support the compliance of your equipment to the given specifications.

1 General		Yes / No	Remarks
	Load cell to measure the load acting under testing of concrete specimens. The load cell should satisfy the following performance criteria.		
2 S _]	pecifications		
2.1	Load capacity: 500 kN; Unit: 01		
2.2	Load cell type: Ring load cell		
2.3	Type of load: Axial tension/compression		
2.4	Strain gauge measuring system: 350 ohms		
2.5	Linearity division: < 0.2%		
2.6	Sensitivity: ± 2 to 2.5 mV/V		
2.7	Accuracy class: 0.5		
2.8	Self-temperature compensated		
2.9	Base of load cell should be deformation/deflection free		
2.10	Compatible with the HBM data acquisition system (QuantumX MX1615B) using Catman software		
2.11	Supporting cable length: 3m		
	echnical Support: Installation, Training, Warranty		
3.1	The manufacturer/supplier must provide training to selected personnel at IIT Madras, on the operation and maintenance of the unit		
3.2	The manufacturer/supplier must have a qualified technical support team to immediately attend the repair of the unit, if any		

3.3 Warranty period of minimum 1 year

TERMS AND CONDITIONS

- 1. The quoted price should be inclusive of all taxes/freight/installation charges, etc.
- 2. The quote should be prepared based on 5% GST considering Educational Institute / Research purpose.
- 3. Customs/Excise Duty exempted price should also be quoted.
- 4. The quotation should have at least three months validity.
- 5. Brand name of the equipment should be mentioned and brochure to be enclosed.
- 6. Warranty conditions, details of the nearest servicing centers, user reference, necessary supporting catalogues and demonstration should be provided.
- 7. The right to accept or reject quotes without assigning any reason rests entirely with the undersigned.
- 8. Authorized dealer certificate should be attached with tender.
- 9. If the date of receipt and opening of quotation is declared a holiday, the next working day shall be the last day for the purpose.
- 10. The item mentioned in the tender is for research purpose. Any Specification which is above or below the defined values is not compatible for the studies and hence not fit to purpose and will be rejected. Only the specifications which is exactly or most close will be considered for the next stage of the tender process.